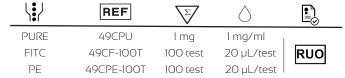
Anti-Human CD49c (VJ1/6)





PRODUCT DESCRIPTION

Clone: VJ1/6:

1.

Isotype: IqGI;

Tested application: flow cytometry;

Immunogen: The anti-CD49c monoclonal antibody derives from TNF activated HUVEC cells;

Species reactivity: Human;

Storage instruction: store in the dark at 2-8 °C;

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN_a);

Recommended usage: Immunostep's CD49c, clone TEAI/41 is a monoclonal antibody intended for the identification and enumeration of Integrin alpha-3 protein using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells;

Presentation: liquid;

Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma; **Purification**: Affinity chromatography;

Other names: Integrin alpha-3, CD49 antigen-like family member C, FRP-2, Galactoprotein B3, GAPB3, VLA-3 subunit alpha, MSK18, VCA-2; VL3A; VLA3a; Gene ID: 3673;

Molecular weight: 170 kDa.

2. ANTIGEN DETAILS

Large description: The monoclonal antibody is directed against the CD49c-antigen (VLA-3 alpha-chain or Integrin alpha-3/beta-I) a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Integrin alpha-3/beta-I provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. Alpha-3/beta-I may mediate with LGALS3 the stimulation by CSPC4 of endothelial cells migration.

Monoclonal antibody VJI/6 reacts with α 3 integrin, a transmembrane glycoprotein which noncovalently associates with integrin β 1 (CD29) to form the α 3bl (CD49c/CD29,VLA-3) complex which is proteolytically cleaved into two disulfide linked fragments of 125 kD and 30 kD. CD49c is expressed mostly on endothelial and epithelial cells (basal epidermal layers). It is not expressed on platelets and is expressed weakly on peripheral blood leukocytes. The CD49c/CD29 complex serves as an adhesive receptor for kalinin or epiligrin. This interaction may be important for thymocyte interaction with thymic epithelium. This antibody is suitable for immunohistochemical staining on acetone-fixed frozen tissue sections.⁽¹⁻⁴⁾

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Revision N° 7 | Emission date: 09/02/2021

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5. REFERENCES

- Wayner EA, Carter WG. Identification of multiple cell adhesion receptors for collagen and fibronectin in human fibrosarcoma cells possessing unique alpha and common beta subunits. J Cell Biol1987 Oct;105(4):1873-84.
- Luque A, Gomez M, Puzon W, Takada Y, Sanchez-Madrid F, Cabanas C. Activated conformations of very late activation integrins detected by a group of antibodies (HUTS) specific for a novel regulatory region (355-425) of the common beta 1 chain. J Biol Chem1996 May 10;271(19):11067-75.
- Liddington RC, Ginsberg MH. Integrin activation takes shape. J Cell Biol2002 Sep 2;158(5):833-9.
- Mitchell K, Szekeres C, Milano V, Svenson KB, Nilsen-Hamilton M, Kreidberg JA, et al. Alpha3betal integrin in epidermis promotes wound angiogenesis and keratinocyte-toendothelial-cell crosstalk through the induction of MRP3. J Cell Sci2009 Jun 1;122(Pt 11):1778-87.

EXPLANATION OF SYMBOLS

6.

7.

∖ ∎∕	Form
REF	Catalog reference
$\sum_{i=1}^{n}$	Contains sufficient for <n> test</n>
\Diamond	Quantity per test
₽]	Regulatory Status
RUO	Research Use Only
	Manufacturer

MANUFACTURED BY:

IMMUNOSTEP S.L.

